

Patent
Attorney's Docket No. 040071-531

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of

Harald GUSTAFSSON

Application No.: 10/022,245

Filed: December 20, 2001

For: SPEECH BANDWIDTH EXTENSION

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)
) Group Art Unit: 2641
)
) Examiner: Unassigned
)
) Confirmation No.: 7123
)

INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER

RECEIVED

JUN 24 2002

Assistant Commissioner for Patents
Washington, D.C. 20231

Technology Center 2600

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

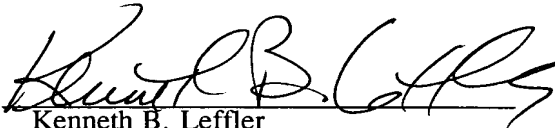
- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A certification under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A certification under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \$_____ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \$_____ is enclosed for the fee due.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

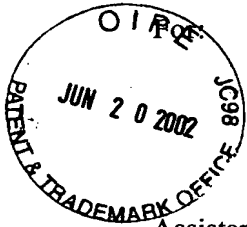
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By: 
Kenneth B. Leffler
Registration No. 36,075

Date: June 20, 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Harald GUSTAFSSON) Group Art Unit: 2641
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SPEECH BANDWIDTH EXTENSION)



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Assistant Commissioner for Patents
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Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicant hereby submits the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

Y. YOSHIDA et al.: "An Algorithm to Reconstruct Wideband Speech From Narrowband Speech Based on Codebook Mapping", Conf. Proc. ICSLP 94, Yokohama, Japan, pages 1591-1594.

J. EPPS et al.: "Speech Enhancement Using STC-Based Bandwidth Extension", Conf. Proc. ICSLP 1998.

J. MAKHOUL et al.: "High-Frequency Regeneration in Speech Coding Systems", Conf. Proc. ICASSP, Washington, USA, 1979, pages 428-431.

H. YASUKAWA: "Quality Enhancement of Band Limited Speech by Filtering and Multirate Techniques", Conf. Proc. ICSLP 94, Yokohama, Japan, pages 1607-1610.

"Digital cellular telecommunications system (Phase 2+); Voice Activity Detector (VAD) for Adaptive Multi-Rate (AMR) speech traffic channels; General description (GSM 06.94 version 7.1.1 Release 1998), ETSI EN 301 708 V7.1.1 (1999-12).

WOLFGANG HESS: "Pitch Determination of Speech Signals", Springer-Verlag, 1983.

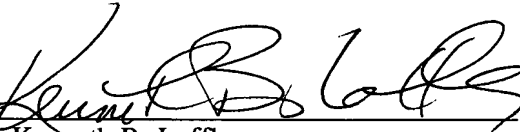
The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or statement is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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040071-531

10/022.245

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICANT

Harald GUSTAFSSON

FILING DATE

December 20, 2001

GROUP

2641

2002

U.S. PATENT DOCUMENTS

[illegible]**FOREIGN PATENT DOCUMENTS**[illegible]

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	Y. YOSHIDA et al.: "An Algorithm to Reconstruct Wideband Speech From Narrowband Speech Based on Codebook Mapping", Conf. Proc. ICSLP 94, Yokohama, Japan, pages 1591-1594.		
	J. EPPS et al.: "Speech Enhancement Using STC-Based Bandwidth Extension", Conf. Proc. ICSLP 1998.		
	J. MAKHOUL et al.: "High-Frequency Regeneration in Speech Coding Systems", Conf. Proc. ICASSP, Washington, USA, 1979, pages 428-431.		
	H. YASUKAWA: "Quality Enhancement of Band Limited Speech by Filtering and Multirate Techniques", Conf. Proc. ICSLP 94, Yokohama, Japan, pages 1607-1610.		
	"Digital cellular telecommunications system (Phase 2 +); Voice Activity Detector (VAD) for Adaptive Multi-Rate (AMR) speech traffic channels; General description (GSM 06.94 version 7.1.1 Release 1998), ETSI EN 301 708 V7.1.1 (1999 12).		
	WOLFGANG HESS: "Pitch Determination of Speech Signals", Springer-Verlag, 1983.		
Examiner Signature		Date Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.